

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method of continuously desalinating water by reverse osmosis, comprising~~in particular desalinating sea water, wherein~~

- introducing salt water (10) ~~is introduced~~ under a first pressure (p1) by means of a delivery pump (1) into a pressure compensating device (2) having a piston/cylinder device,

- introducing salt water (11) ~~is continuously introduced~~ from the pressure compensating device (2) at a second increased pressure (p2) into a membrane module (3) and separated therein by means of a membrane (6) into desalinated water (12) and concentrated salt water (13), and

- discharging the concentrated salt water (13) ~~discharged~~ from the membrane module (3) ~~is continuously introduced and introducing it~~ under approximately the second pressure (p2) into the pressure compensating device (2) and ~~used there~~ for acting with approximately the second pressure (p2) on the salt water (10) introduced into the pressure compensating device (2) and for introducing the salt water (11) into the membrane module (3), and

- introducing a continuous flow of the salt water (11) ~~introduced~~ into the membrane module (3) that is maintained over the surface of the membrane (6) by means of salt water discharged from a reservoir (15; 403; 20),

~~characterised in that the reservoir (15; 403; 20) has~~ having a piston reservoir (403) with a piston (303), wherein at the piston front side it has an inlet chamber (203) connected to the salt water outlet of the pressure compensating device (2)

and the salt water inlet of the membrane module (3) and at the piston rear side it has an outlet chamber (103) connected to the outlet of the concentrated salt water (13) of the membrane module (3) and a pressure chamber (503) connected to a pressure reservoir (20), and that the surface area ratios of the piston rear side and the pressure of the pressure reservoir (20) are so set that at predetermined moments in time a pressure is produced in the inlet chamber (203), which is greater than the second pressure (p_2) of the salt water (11) discharged from the pressure compensating device (2).

2. (Currently Amended) A method according to claim 1 characterised in that the pressure compensating device (2) has two piston/cylinder devices (401, 402) which operate in opposite phase relationship and which each have a respective piston (301, 302), and that the reservoir (15; 403; 20) passes water from the reservoir (15; 403; 20) into the membrane module (3) upon a change in the direction of movement of the pistons (301, 302).

3. (Currently Amended) A method according to claim 1 or claim 2 characterised in that the pressure for discharging the water from the reservoir (15; 403; 20) is produced by a combination of the approximately second pressure (p_2) of the concentrated salt water (13) discharged from the membrane module (3) and an assisting pressure from a pressure reservoir (20).

4. (Currently Amended) Apparatus for continuously desalinating water by reverse osmosis, in particular for desalinating sea water, comprising:

- a delivery pump (1) for introducing salt water (10) under a first pressure (p_1) into a pressure compensating device (2),
- a membrane module (3) for separating introduced salt water (11) into desalinated water (12) and concentrated salt water (13),

- a pressure compensating device ~~(2)~~ having a piston/cylinder device for continuously feeding the salt water ~~(11)~~ under a second increased pressure ~~(p2)~~ into the membrane module ~~(3)~~ and for discharging the concentrated salt water ~~(13)~~, and

- a reservoir ~~(15; 403; 20)~~ for maintaining a continuous flow of the salt water ~~(11)~~ introduced into the membrane module ~~(3)~~ over the surface of the membrane ~~(6)~~ by the discharge of water from the reservoir ~~(15; 403; 20)~~ into the membrane module ~~(3)~~,

~~characterised in that the reservoir (15; 403; 20) has~~ having a piston reservoir ~~(403)~~ with a piston ~~(303)~~, wherein at the piston front side it has an inlet chamber ~~(203)~~ connected to the salt water outlet of the pressure compensating device ~~(2)~~ and the salt water inlet of the membrane module ~~(3)~~ and at the piston rear side it has an outlet chamber ~~(103)~~ connected to the outlet of the concentrated salt water ~~(13)~~ of the membrane module ~~(3)~~ and a pressure chamber ~~(503)~~ connected to a pressure reservoir ~~(20)~~, and that the surface area ratios of the piston rear side and the pressure of the pressure reservoir ~~(20)~~ are so set that at predetermined moments in time a pressure is produced in the inlet chamber ~~(203)~~, which is greater than the second pressure ~~(p2)~~ of the salt water ~~(11)~~ discharged from the pressure compensating device ~~(2)~~.

5. (Currently Amended) Apparatus according to claim 4 characterised in that the pressure compensating device ~~(2)~~ has two piston/cylinder devices ~~(401, 402)~~ operating in opposite phase relationship and each having a respective piston ~~(301, 302)~~ and that the reservoir ~~(15; 403; 20)~~ passes water out of the reservoir ~~(15; 403; 20)~~ into the membrane module ~~(3)~~ upon a change in the direction of movement of the pistons ~~(301, 302)~~.

6. (Currently Amended) Apparatus according to claim 4 ~~or claim 5~~ characterised in that the piston ~~(303)~~ is of such a configuration that the pressure obtaining

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in the pressure chamber (503) can act on approximately a quarter of the area of the piston rear side and the pressure obtaining in the outlet chamber (103) can act approximately on three quarters of the area of the piston rear side.

7. (Currently Amended) Apparatus according to claim 4, ~~claim 5 or claim 6~~ characterised in that the pressure reservoir (20) has a pressure which is at least double the second pressure (~~p2~~).